

VFR FLYWAY PLANNING CHART

SEATTLE

Scale 1:250,000

NOT TO BE USED FOR NAVIGATION

AIRPORTS

Paved Runways

NAME (NAM)

Unpaved Runways

NAME (NAM)

RADIO AIDS TO NAVIGATION

VOR

DLG 138.8

VORTAC

PPS 121.8

VOR-DME

KIP 110.7

NDB

DCW 262

NDB-DME

RMW 320

DME

PVU CH 21 (108.4)

AIRPORT TRAFFIC SERVICE AND AIRSPACE INFORMATION

Class B Airspace

Class C Airspace (Mode C - see FAR 91.215/AIM.)

Class B/C Surface Area

Prohibited, Restricted, and Warning Areas

*Alert Area and Military Operations Area (MOA)

*Alert Areas do not extend into Class A, B, C and D airspace, or Class E airport surface areas.

IFR Departure Routes

IFR Arrival Routes

IFR Arrival/Departure Routes

Examples of Class B Airspace Altitudes

70 --- Ceiling in hundreds of feet MSL

30 --- Floor in hundreds of feet MSL

Mode C (See FAR 91.215/AIM.)

Class D Airspace

Ceiling of Class D Airspace in hundreds of feet (A minus ceiling value indicates surface up to but not including that value.)

Class E (sf) Airspace

Suggested VFR Flyway and Altitude

2600

6700

OBSTRUCTIONS (Selected)

Navigation Reference Point

2049

N39° 56.32' W120° 36.91'

MISCELLANEOUS

Navigation Reference Point

12256

N39° 56.32' W120° 36.91'

TOPOGRAPHIC INFORMATION

Navigation Reference Point

12256

N39° 56.32' W120° 36.91'

VFR TRANSITION ROUTES

THIS CHART ALSO IDENTIFIES VFR TRANSITION ROUTES IN THE SEATTLE CLASS B AIRSPACE. OPERATION ON THESE ROUTES REQUIRES ATC AUTHORIZATION FROM SEATTLE APPROACH CONTROL. UNTIL AUTHORIZATION IS RECEIVED, REMAIN OUTSIDE CLASS B AIRSPACE. DEPICTION OF THESE ROUTES IS TO ASSIST PILOTS IN POSITIONING THE AIRCRAFT IN AN AREA OUTSIDE THE CLASS B AIRSPACE WHERE ATC CLEARANCE CAN NORMALLY BE EXPECTED WITH MINIMAL OR NO DELAY. ON INITIAL CONTACT, ADVISE ATC OF POSITION, ALTITUDE, ROUTE NAME DESIRED, AND DIRECTION OF FLIGHT. REFER TO CURRENT SEATTLE VFR TERMINAL AREA CHART FOR USER REQUIREMENTS.

VFR TRANSITION ROUTE
(ATC CLEARANCE REQUIRED)
ALTITUDE ASSIGNED BY ATC

THIS CHART IDENTIFIES VFR FLYWAYS DESIGNED TO HELP VFR PILOTS AVOID MAJOR CONTROLLED TRAFFIC FLOWS. IT DEPICTS MULTIPLE VFR ROUTINGS THROUGHOUT THE SEATTLE AREA WHICH MAY BE USED AS ALTERNATES TO FLIGHT WITHIN THE ESTABLISHED CLASS B AIRSPACE. ITS GROUND REFERENCES PROVIDE A GUIDE FOR IMPROVED VISUAL NAVIGATION. THIS IS NOT INTENDED TO DISCOURAGE REQUESTS FOR VFR OPERATIONS WITHIN THE CLASS B AIRSPACE BUT IS DESIGNED SOLELY FOR INFORMATION AND PLANNING PURPOSES.

CAUTION

THE ENTIRE SEATTLE AREA IS HEAVILY CONGESTED WITH MANY DIFFERENT AIRCRAFT TYPES. THESE ROUTE SUGGESTIONS ARE NOT STERILE OF OTHER TRAFFIC; THEY ARE AREAS WE BELIEVE LEAST CONGESTED IN AN AREA OF HEAVY CONGESTION. PILOT ADHERENCE TO VFR RULES MUST BE EXERCISED AT ALL TIMES. COMMUNICATIONS MUST BE MAINTAINED BETWEEN AIRCRAFT AND CONTROL TOWERS WHILE IN CLASS D AIRSPACE.

SEATTLE CLASS B AIRSPACE

OPERATING RULES AND PILOT/EQUIPMENT REQUIREMENTS: Regardless of weather conditions, an ATC authorization is required prior to operating within the Class B Airspace. Pilots should not request an authorization to operate within the Class B Airspace unless the requirements of FAR 91.215 and FAR 91.131 are met. Included among those requirements are:

- Unless otherwise authorized by ATC, an operable two-way radio capable of communicating with ATC on appropriate frequencies for that Class B Airspace.
- No person may take off or land a civil aircraft at an airport within the Class B Airspace or operate a civil aircraft within the Class B Airspace unless:
 - The pilot in command holds at least a Private Pilot certificate, or holds a Recreational Pilot certificate and has met the requirements of FAR 91.101(d), or holds a Sport Pilot certificate and has met the requirements of FAR 61.305, or
 - The aircraft is operated by a student pilot who has met the requirements of FAR 61.34 or FAR 61.50 as applicable.
- Unless otherwise authorized by ATC, each person operating a large turbine engine-powered aircraft to or from a primary airport shall operate at or above the designated floors while within the lateral limits of the Class B Airspace.
- An operable VOR or TACAN receiver for IFR operations.
- A transponder with automatic altitude reporting equipment.

NOTE: ATC may, upon notification, immediately authorize a deviation from the altitude reporting equipment requirement or for a transponder failure; however, other requests for deviations from the transponder equipment requirement must be submitted to the controlling ATC facility at least one hour before the proposed operation.

FLIGHT PROCEDURES

IFR FLIGHTS—Aircraft operating within the Seattle Class B Airspace must be operated in accordance with ATC clearances and instructions.

VFR FLIGHTS—

- Arriving aircraft should contact the appropriate approach control on specified frequencies and in relation to geographic fixes shown on the accompanying chart. Although arriving aircraft may be operating beneath the floor of the Class B Airspace on initial contact, communications should be established with approach control in relation to the points indicated for sequencing and spacing purposes.
- Aircraft departing the primary airports are requested to advise clearance delivery prior to taxiing of their intended altitude and direction of flight to depart the Class B Airspace. Aircraft departing from other than the primary airports whose route of flight would penetrate the Class B Airspace should give this information to ATC on the appropriate frequencies.
- Aircraft desiring to transit the Class B Airspace must obtain an ATC clearance to enter the Class B Airspace and will be handled on an ATC workload permitting basis.

ATC PROCEDURES

All aircraft will be controlled and separated while operating within the Class B Airspace, except helicopters need not be separated from other helicopters. Although radar separation will be the primary standard used, approved visual and other non-radar procedures will be applied as required or deemed appropriate. Traffic information on observed but unidentified radar targets will be provided on a workload permitting basis to aircraft operating outside the Class B Airspace.

NOTE: Assignment of radar headings and/or altitude is based on the provision that a pilot operating in accordance with visual flight rules is expected to advise ATC of compliance with an assigned route, radar heading, or altitude which causes the pilot to violate such rules.

The main chart is a detailed VFR Flyway Planning Chart for the Seattle area. It shows the Class B Airspace boundary, which is a large circle centered on Seattle. Various airports are marked with their names and codes, including Seattle-Tacoma International (SEA), Boeing Field/King County International (BFI), and several smaller airports like Renton Municipal (RNT), Everett (EVF), and Snohomish County (Paine Field) (PAE). The chart also shows various VFR Transition Routes (VFR TR) and VFR Flyways, which are designed to help pilots avoid major controlled traffic flows. These routes are shown as dashed lines with arrows indicating the direction of flight. The chart includes a variety of symbols for airports, radio aids to navigation (VOR, VORTAC, VOR-DME, NDB, NDB-DME), and obstructions. It also shows various geographical features like Lake Washington, Lake Union, and the Duwamish River. The chart is divided into several sections, each with its own set of symbols and information. The top section shows the Class B Airspace and various airports. The middle section shows VFR Transition Routes and VFR Flyways. The bottom section shows various airports and landmarks. The chart is a complex and detailed map that provides a wealth of information for pilots flying in the Seattle area.

**BOEING FLD/KING COUNTY INTL
VFR TRANSITION ROUTES**

This inset map shows the VFR Transition Routes for Boeing Field/King County International. It is a detailed map of the area around BFI, showing the various routes that pilots can use to enter and exit the Class B Airspace. The routes are shown as dashed lines with arrows indicating the direction of flight. The map also shows various airports, landmarks, and geographical features. This inset map is a useful tool for pilots flying in the BFI area, as it provides a clear and concise overview of the VFR Transition Routes.

NORTH ARRIVALS

BELLEVUE
Contact BFI tower 118.3 east of downtown Bellevue.
Fly toward where the I-90 bridge meets Mercer Island, east of Mt. Baker tunnel.
Cross I-90 bridge at 1600' MSL, then fly direct to midfield right downwind.

GREEN LAKE
Contact BFI tower 118.3 over Green Lake.
Fly southeast toward the 520 floating bridge (47°38'26.87"N, 122°19'33.33"W) and western Lake Washington shoreline.
From 520 bridge, fly via the shoreline until I-90 bridge [crossing I-90 bridge at 1200' MSL].
Enter right downwind.

KENT
Contact BFI tower 118.3 over Kent.
Fly northbound along SR-167 until abeam Valley Medical Center/KEA at 1100' MSL.
Fly over the EAST side of the Renton Concrete Recyclers (47°28'40.9"N, 122°14'55.4"W) to make a straight-in approach.

VASHON
Contact BFI tower 120.6 over North Vashon Island.
Fly westbound (approx. ground track 089°) toward midfield Boeing Field/King Co Int airport.
After crossing the shoreline, descend to 1000' MSL or below.
Over the Duwamish River enter left downwind, maintain 800' MSL.

NORTH DEPARTURES

ALKI
Depart runway and as soon as possible, turn northwest bound to Alki Beach (approx. ground track 300°).
Cross over Alki Beach at or below 1500' MSL.

BELLEVUE
Depart runway and, when able, turn northeast bound to overfly Mt. Baker (I-90 bridge and western shoreline of Lake Washington) at 1600' MSL.
Once north of I-90 bridge, fly toward the north side of downtown Bellevue, then on course.

BLAKE
Depart runway and, when able, turn westbound toward Blake Island remaining at or below 1700' MSL.
Continue toward Blake Island and cross the shoreline at or below 1900' MSL.

GREEN LAKE
Depart runway and follow I-5 northbound at 1600' MSL remaining east of downtown Seattle.
Once abeam Lake Union, turn slightly left to pass just west of Green Lake, then, on course.

RAINIER
Depart runway and, when able, make a right downwind departure to overfly Rainier Beach at 1500' MSL.
Expect frequency change from BFI tower to RNT tower prior to Rainier Beach.
At Rainier Beach, continue climb to 1900' MSL DIRECT to RNT airport.
Continue present heading to NWV-169 towards the Cedar Hills Landfill (47°27'22"N, 122°02'36"W) until outside of PNT Class D airspace then, on course.

This inset map shows the VFR Transition Routes for South Departures. It is a detailed map of the area around the southern part of the Seattle Class B Airspace, showing the various routes that pilots can use to enter and exit the Class B Airspace. The routes are shown as dashed lines with arrows indicating the direction of flight. The map also shows various airports, landmarks, and geographical features. This inset map is a useful tool for pilots flying in the southern part of the Seattle area, as it provides a clear and concise overview of the VFR Transition Routes.

SOUTH DEPARTURES

ALKI
Depart full length, and when able, make a continuous right turn to the downwind at or inside the Duwamish river while maintaining 700' MSL.
After passing the control tower, make a slight left turn toward Alki Point Lighthouse (approx ground track 300°) maintain at or below 1500' MSL.
Over the lighthouse, proceed to Restoration Point then, toward Bainbridge, then, on course.

BELLEVUE
Depart runway, turn left downwind.
Once midfield, make a right turn to overfly where the I-90 Bridge meets Mercer Island maintaining between 1000'-1500' MSL.
Fly northeast bound to remain north of Mercer Island and south of downtown Bellevue

GREEN LAKE
Depart runway, make a left downwind departure to overfly Mt. Baker (I-90 bridge and western shoreline) at 1600' MSL.
Continue north to cross over University of Washington.
Remain EAST of I-5 passing Green Lake, then on course.

KENT
Depart runway southeast bound remaining east of I-5 and below 1100' MSL until abeam Renton Concrete Recyclers (47°28'40.9"N, 122°14'55.4"W).
Make a slight right turn to fly between Southcenter and railroad tracks to downtown Kent.

VASHON
Depart full length, and when able, make a continuous right to the downwind at or inside the Duwamish river while maintaining 700' MSL.
After passing the white Boeing test hangers, make a left turn westbound toward the north tip of Vashon Island (remaining south of Lincoln Park) and below the SEA Class Bravo airspace.

SOUTH ARRIVALS

BAINBRIDGE
Contact BFI tower 120.6 over Bainbridge Island.
Maintain at or below 1400' MSL and fly northeast bound to West Point (47°39'42"N, 122°26'13"W).
Fly eastbound and join the ship canal to Lake Union.
Join I-5 southbound until turning approximately a 1 mile thrust.

BELLEVUE
Contact BFI tower 118.3 north of downtown Bellevue.
Fly toward Mt. Baker (where I-90 bridge meets western shoreline).
Cross Mt. Baker at 1100' MSL, enter left basin.

BLAKE
Contact BFI tower 120.6 over Blake Island.
Fly eastbound to pass north end of Lincoln Park.
Report over Lincoln Park and expect sequencing/landing instructions from tower.

GREEN LAKE
Contact BFI tower 118.3 over Green Lake, fly via I-5 southbound.
Maintain 1500' MSL abeam 520 floating bridge (47°38'26.87"N, 122°19'33.33"W).
Continue I-5 southbound until turning a 1 mile thrust.

KENT
Contact BFI tower 118.3 over Kent.
Fly northbound along SR-167 until abeam Valley Medical Center/KEA at 1300' MSL.
Fly over the east side of Renton Concrete Recyclers (47°28'40.9"N, 122°14'55.4"W) to enter left downwind.